

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CR80-010 SERIES

80 AMP GENERAL PURPOSE
SILICON RECTIFIER
100 THRU 1200 VOLTS

JEDEC DO-5 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR80-010 Series types are 80 Amp stud mounted silicon rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

MAXIMUM RATINGS (T_C = 25°C unless otherwise noted)

	SYMBOL	CR80 -010	CR80 -020	CR80 -040	CR80 -060	CR80 -080	CR80 -100	CR80 -120	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	V _R	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	V _{R(RMS)}	70	140	280	420	560	700	840	V
Average Forward Current (T _C = 150°C)	I _O				80				A
Peak Forward Surge Current	I _{FSM}				1500				A
Operating and Storage Junction Temperature	T _J , T _{stg}				-65 to +200				°C

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _F	I _F = 80A		1.2	V
I _R	V _R = Rated V _{RRM}		100	μA
I _R	V _R = Rated V _{RRM} , T _C = 150°C		4.0	mA

NOTE: Normal Polarity: Cathode to Stud (Case)
For Reverse Polarity add "R" Suffix (Ex: CR80-040R)

